

ABSTRACT OF THE DISCLOSURE

The invention encompasses a method of forming a metallic article. An ingot of metallic material is provided, and such ingot has an initial thickness. The ingot is subjected to hot forging. The product of the hot forging is quenched to fix an average grain size of less than 250 microns within the metallic material. The quenched material can be formed into a three dimensional physical vapor deposition target. The invention also includes a method of forming a cast ingot. In particular aspects, the cast ingot is a high-purity copper material. The invention also includes physical vapor deposition targets, and magnetron plasma sputter reactor assemblies.